DOCUMENT RESUME

ED 307 913 JC 890 272

TITLE	Sequence Curriculum: High School to College. Middlesex Community College/Haddam-Killingworth High School. Final Report.
INSTITUTION	Middlesex Community Coll., Middletown, Conn.
SPONS AGENCY	Connecticut State Dept. of Education, Hartford. Div. of Vocational, Technical, and Adult Education.
PUB DATE	30 Jun 88
NOTE	37p.
PUB TYPE	Reports - Descriptive (141) -- Guides - Classroom Use - Guides (For Teachers) (052)
EDRS PRICE	MF01/PC02 Plus Postage.
DESCRIPTORS	*Articulation (Education); Broadcast Industry; *College School Cooperation; Community Colleges; *Cooperative Programs; *Curriculum Development; High Schools; Student Recruitment; Two Year Colleges; *Vocational Education

ABSTRACT

Through a collaborative effort between Middlesex Community College (MxCC) and Haddam-Killingworth High School (HKHS), students taking specific high school courses in television production, broadcast journalism, electronics, and photography are granted college credit by MxCC upon admission to the college's Broadcast Communication Program. The development of this articulated program involved the following activities: (1) meetings between HKHS and MxCC representatives to develop a competency-based curriculum, discuss the design and content of the courses, agree upon learning objectives, methods of matriculation, use of equipment, awarding of credit, and promotion of the program to nontraditional groups, and determine requisite skill levels for the television production courses; (2) the development of curriculum criteria and evaluation measures; and (3) the distribution of 500 brochures explaining the skill mastery requirements for college credit to students enrolled in HKHS's television program and interested MxCC students. Descriptions, course outlines, syllabi, and instructor guidelines for the articulated courses are appended to the project report along with budgetary information, the promotional brochure, and an application form. (JMC)

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SEQUENCE CURRICULUM: HIGH SCHOOL TO COLLEGE

MIDDLESEX COMMUNITY COLLEGE/HADDAM-KILLINGWORTH HIGH SCHOOL

FINAL REPORT

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CONNECTICUT STATE DEPARTMENT OF EDUCATION
DIVISION OF VOCATIONAL, TECHNICAL, AND ADULT EDUCATION
BUREAU OF VOCATIONAL SERVICES
HARTFORD, CONNECTICUT

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This project was supported by funds made available to Conneticut through P.L. 98-524

All opinions expressed reflect the views of the authors and are not necessarily those of the State Department of Education.
June 30, 1988

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MIDDLESEX COMMUNITY COLLEGE/HADDAM-KILLINGWORTH HIGH SCHOOL

SEQUENCE CURRICULUM: HIGH SCHOOL TO COLLEGE

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PREFACE

Designated a Center for Excellence by the State of Connecticut, the Middlesex Communications Center at Middlesex Community College is the only facility in New England that offers a broadcast-quality television studio and production program specifically designed to give associate degree students the training they need for entry level positions in the broadcast industry.

In an effort to attract students from area high schools into this program, John Shafer and Bruce Avery of Middlesex Community College met with Frank Heath, the teacher and coordinator of the Haddam-Killingworth Television Program. Both high school and college curricula were closely examined and compared for similarities. Four courses were identified: two in TV Production, one in electronics and one in photography.

Discussions brought about agreement on a competency-based curriculum, learning objectives, method of matriculation, use of equipment and awarding of credits. Both secondary and college personnel set a goal of 12 credits to be granted to high school students who take the four courses involved at the Haddam-Killingworth High School. Upon successful completion of the courses, these students enter Middlesex Community College with advanced standing in the Broadcast Communications Program.

ABSTRACT

Through a collaborative effort between Middlesex Community College and the Haddam-Killingworth High School, high school students taking specific courses in TV Production, Electronics and Photography will be granted college credit by MxCC upon admission. After a series of meetings between college and high school personnel involved in the TV Production, electronics, and photography disciplines, specific curriculum criteria and evaluation methods will be developed and agreed on. Approximately 500 brochures describing the program will be distributed to promote the program. Students interested would then be interviewed and informed of the specific criteria and skill mastery requirements necessary to qualify for the awarding of college credit. An evaluation team comprised of members from both institutions would then determine which students successfully met all qualifications and masteries.

Six meetings between Haddam-Killingworth and Middlesex Community College representatives were scheduled from January to June 1988 to develop a competency-based curriculum and discuss the design and content of courses. Students would be closely advised throughout the four-year high school period. Two of the four courses involved (Electronics and Photography) could be taken by students at convenient times throughout the freshman through senior years. The Basic and Advanced TV Production courses must be taken in the junior and senior years, respectively. Students successfully completing all four courses would be awarded 12 credits by Middlesex Community College upon admission to the Broadcast Communication Program.

The course breakdown is as follows:

Haddam-Killingworth High School Course	Middlesex Community College	Credits
Basic TV Production	BC 258 (Bdcst. Jrnl. Wkshp)	3
Adv. TV Production	BC 252 (TV Production)	3
Electronics	TC 104 (Fund. of Electronics I)	3
Photography	Art 118 (Photography I)	3
	TOTAL CREDITS	12

2 + 2 High School to College Equivalency Program

ADDENDUM NOTE
REGARDING THE RECENT COMPLETION OF A VIDEO PRODUCTION CURRICULUM GUIDE BY THE STATE DEPARTMENT OF EDUCATION

In June of 1988, a task force for the State's Department of Education, directed by Calvin Fish of Manchester Public Schools, completed a curriculum guide for video production courses being offered in high schools. During the initial stages of the preparation of this guide I was consulted about my views on essential subject matter and submitted copies of our course syllabi as a reference for the task force. Upon completion of their project I was sent a copy of the guide and reviewed it. I found it to be a competent and thorough guideline for introductory video production courses, including those on a college level. As such, I would recommend any high school that implements a video production curriculum based on this guideline, to establish a program to qualify students for college-level equivalency credit through our college--contingent upon the development of specific equivalencies with each individual high school and the ability to verify their fulfillment of the guidelines. Adequate facility capacity would also be a factor.

John Shafer, Co-coordinator
Broadcast Communications Department

INTRODUCTION

STATEMENT OF PROBLEM: There currently exists in some college curricula, courses that are similar to those offered at the high school level. Students entering college in these programs are either required to take these same courses or course waivers and are asked to select other college courses in their place. This creates a disincentive and the student feels "cheated".

RATIONALE: A close analysis of courses offered at the secondary and post-secondary institutions could result in the awarding of college credits to students who successfully complete all requirements while in high school. This would create an incentive for high school graduates involved who could then enter college with advanced standing. Both institutions would meet to discuss and agree upon competency-based curriculum, learning and behavioral objectives and skill mastery levels.

GOALS AND OBJECTIVES:

1. To bring about a collaborative undertaking between Haddam-Killingworth High School and Middlesex Community college personnel whereby both agencies will acknowledge the implementation of a specific curriculum and agree that the credit requirements will be met in fiscal year 1988-1989.
2. To align curricula between secondary and post-secondary personnel, so that learning objectives, competencies,

classroom or laboratory activities, methods of instruction and use of equipment will meet the credit requirements of both agencies.

3. To develop a process of awarding college credit so that students completing the secondary-level program may receive advanced entrance placement at the college level.

4. To develop a plan for student recruitment and promotion of the program.

PROJECT DESIGN

TARGET POPULATION: Students at the Haddam-Killingworth High School who enroll in their Basic and Advanced TV Productions, Electronics and Photography courses and who are interested in pursuing an Associate Degree in Broadcast Communications would be the primary target population for this project. Once underway, Middlesex Community College plans on promoting this same sequence curriculum to other high schools in the state who are interested.

PROCEDURES AND ACTIVITIES: Personnel from both agencies who teach in the disciplines involved met throughout the period of January through June 1988 to discuss and agree upon a competency-based curriculum, learning objectives, methods of matriculation, use of equipment, awarding of credit, promotion of the program to non-traditional groups of students, etc. which were dealt with in detail. The meetings took place at both the secondary and post-secondary institutions so that TV production equipment could be examined and compared for curriculum validity.

Skill levels for the TV production courses were determined through examination of students' production work. Specific course eligibility and project requirments were agreed upon by both agencies' personnel and used in the grading of the students' work. A specific minimum grade will be required if the student is to receive college credit.

PROJECT STAFF FUNCTIONS AND MEETINGS: The staff involved in the project are:

STAFF	FUNCTION
Judy McGrath, Director Instructional Programs Middlesex Community College Director of the Project	As Co-Director of the project, led meetings dealing with the grant proposal and its preparation and submission.
John Shafer, Instructor Broadcast Communication Middlesex Community College	As Co-Director, organized and coordinated meetings between other staff members. Also closely and actively involved in curriculum development and determination of criteria for entire project.
Bruce Avery, Instructor Broadcast Communication Middlesex Community College	The MxCC representative involved in the observation of classroom productions, student work, and discussion of TV Production courses held at Haddam-Killingworth. High School.
Frank Heath, Instructor Haddam-Killingworth High School	The Haddam-Killingworth representative involved in curriculum discussions of TV Production courses and setting of criteria.
Anthony Agnes Part-time Instructor Middlesex Community College	The MxCC representative involved in scrutinizing and comparing the electronics courses.
Charles W. Eckert, Professor Photography Middlesex Community College	The MxCC representative involved in the curriculum comparisons of the photography course.
Jim Lundell, Instructor Haddam-Killingworth High School	The Haddam-Killingworth representative involved in discussions on the electronics course.

Mary Vernesoni, Instructor Haddam-Killingworth High School	The Haddam-Killingworth representative involved in discussions on the photography course.
Stephen Ellis, Part-time instructor Middlesex Community College TV Operations Manager, Channel 26	An MxCC representative involved in discussions of minimum requirements for the electronics course and its relation to television engineering.

All were involved in meeting on a regular basis to compare syllabi for courses in TV production, electronics and photography and agree on specific criteria for each course.

Ms. McGrath, Mr. Shafer and Mr. Heath held several meetings which dealt specifically with the promotion of the project to other high schools in the Middlesex Community College service area.

Meetings were also held with the Director and Assistant Director of Admissions and Records to establish procedures for the transcripting of college credits for students who qualify for the program upon admission to the college.

Dissemination, Publicity, etc.: The Broadcast Communications Program Brochure, which describes the Middlesex Communications Center facility and lists the Broadcast Communications curriculum, will include an insert on the Sequence Curriculum. These brochures will be mailed/distributed to all students currently enrolled in

Haddam-Killingworth's Television Program and also interested incoming freshmen. In addition, the college will publicize this program to other area high schools through a mailing of the brochure.

SUMMARY

NOTE: Specific eligibility requirements to receive college credits for the following courses are listed in appendices.

TV Production MxCC BC 252 --> Haddam-Killingworth HS TV 25 Advanced TV

This course as taught at Haddam-Killingworth conceptually offers all of the basic production knowledge included in Middlesex Community College's course. Students at Haddam-Killingworth will have previously completed one year of TV production before taking TV 25. Advanced skills such as writing, directing and editing should be covered in this second year and students should complete an individual video project which they write, direct, shoot and edit themselves. Because many items of television equipment at Middlesex Community College differ from Haddam-Killingworth's, a special 8-hour training session will be required at Middlesex Community College to familiarize students with equipment operation and procedures before they take advance-level courses.

Broadcast Journalism MxCC BC 258 --> Haddam-Killingworth HS TV 15

Although sequentially BC 258 at Middlesex Community College is more advanced than BC 252 (TV Production), because of the nature of Haddam-Killingworth's TV 15 course which centers around production of a daily newscast, it more closely resembles the Broadcast Journalism course. In fact, Haddam-Killingworth High School students in TV 15 probably obtain considerably more experience in Broadcast Journalism practice than Middlesex Community College students as they are producing a news show every day for an entire year, while Middlesex

Community College students in BC 258 produce a newscast once or twice a week for one semester. The level and quality of work is, of course, a crucial factor and participating students should be monitored and evaluated by the high school instructor for their level of participation. They will also be responsible for producing a special electronic news gathering (ENG) project which should be included in a newscast and submitted to Middlesex Community College faculty for evaluation.

Photography MxCC Art 118 --> Haddam-Killingworth HS Photography 15

Both the facilities and course structure of Haddam-Killingworth's photography program appeared to adequately offer an equivalency to Middlesex Community College's course, Art 118, although it would be necessary for students to complete two semesters of course work at Haddam-Killingworth High School to meet this equivalency. During the second semester students are given more advanced assignments and the instructor should direct participating students to complete the specific types of photographs to meet current portfolio requirements for receiving credit. Portfolios will be examined by Middlesex Community College faculty upon completion of the second semester of coursework.

Electronics MxCC BC 104 --> Haddam-Killingworth HS Electronics 25

It was determined that while many comparable topics are covered in Haddam-Killingworth High School's electricity and electronics courses, there are some areas of deficiency. It was decided that a second semester of Electronics 25 would be needed to cover additional areas

which will be recommended to participating students under the guidance of the electronics instructor. To ensure competency in the subject area, students would be given a standardized examination upon completion of the second semester of Electronics 25. The high school instructor would be familiarized with this examination so that he can adequately help prepare students to take it.

APPENDICES

MIDDLESEX COMMUNITY COLLEGE COURSE BC 104 - Fundamentals of Electronics I

TOPICS OUTLINE

ORIENTATION
SAFETY
SHOP PRACTICES
SOLDERING
ELECTRON PHYSICS
FUNDAMENTAL CONCEPTS
ELECTRICAL UNITS
EIA COLOR CODE
USE AND CARE OF METERS
OHM'S LAW
SAFETY DEVICES
ELECTRONICS MATH
ELECTRONICS PREFIXES
SERIES CIRCUITS
PARALLEL CIRCUITS
AC FUNDAMENTALS
FREQUENCY SPECTRUM INTRODUCTION TO OSCILLOSCOPES
INDUCTANCE
INDUCTIVE REACTANCE
INDUCTIVE CIRCUITS
CAPACITANCE
CAPACITIVE REACTANCE
CAPACITIVE CIRCUITS
FILTER CONCEPTS
TRANSFORMERS
BATTERIES
IMPEDANCE MATCHING
MAXIMUM POWER TRANSFER
SEMICONDUCTOR FUNDAMENTALS
TRANSISTORS
DIODES
INTEGRATED CIRCUITS
ELECTRICITY
NETWORK THEOREMS
DIRECT CURRENT METERS
CONDUCTORS AND INSULATORS
RESISTORS
MAGNETICS
ELECTROMAGNETIC INDUCTION
ALTERNATING VOLTAGE
ALTERNATING CURRENTS
ALTERNATING CIRCUITS
COMPLEX NUMBERS
RESONANCE
ELECTRON TUBES

MIDDLESEX COMMUNITY COLLEGE - BC 252 - TELEVISION PRODUCTION

SYLLABUS

Course Description: This course is designed to introduce students to all aspects of television production, including remote field production, editing/post-production and live-format studio production. Course work will involve classroom lectures, readings and hands-on practical experience.

Required Text: TELEVISION PRODUCTION, 2nd Ed.; by Alan Wurtzel. (McGraw-Hill, Inc., New York, 1983)
Available in MxCC bookstore and on the reserve shelf in the library.

Students should also be prepared to purchase one or more video cassettes for production use (also in bookstore).

Grade Breakdown:

Studio Production Participation	25%
Individual Studio Directing Project	10%
EFP Project (Due May 10)	20%
Midterm Exam (March 10)	25%
Final Exam (May 19, 9:30 a.m.)	20%

Topics

Intro / Video Tape Formats / The Video Camera
Camera Set-up / Shooting Techniques
Lighting / Audio
Editing & Post-Production
Character Generator / Studio Master Control
Writing / Performing / Live Studio Production
Directing / MIDTERM EXAM
Studio Production Preparation & Practice
Studio Production
SPRING BREAK
Studio Production
Studio Production
ENG Production
Studio News Production
Studio Production Review
EFP PROJECT DUE - Critiques
FINAL EXAM, 9:30 a.m.

Middlesex Community College BC 258 - Broadcast Journalism Workshop

Instructor Guidelines

Broadcast Journalism Workshop (BC258) at Middlesex Communications Center is designed to introduce students to the complex, often confusing world of television (and to a lesser extent - radio) news.

At various times during the course all students are required to perform certain crucial tasks and each individual must choose between several other important jobs within the news team and technical crew (the "Main Focus" days in the syllabus, where the student and instructor talk at the beginning of the term and the student indicates which roles he/she wants to specialize in and then is graded accordingly. For example, if students are interested in being talents, then they are judged more critically on their reporter packages and anchoring). All students must attend each session and rotate through the various technical jobs necessary to get the production on the air.

Required jobs:

Producer: Each student must produce live fifteen-minute closed-circuit television newscasts at regular intervals throughout the semester.

While accomplishing this, he/she learns how and where to find topical stories; how to assign those stories to others; and how to prepare a rundown, selecting appropriate story order, length, relative importance, and flow (through proper use of transitions). Also, the students/producers discover correct graphic usage for slides, learn responsibility and delegation of authority by seeing that everyone's work is ready on time and is factually, journalistically and ethically accurate.

Writer/Field Reporter: During every newscast all students not acting as producer, studio director or studio engineer must either write in-house stories or go out with an ENG (Electronic News Gathering) camera crew as field reporters. In either case, they are responsible for collecting the latest factual information on the who, what, when, why, where, how, and how much of the news item, and then writing it (or editing it) into a concise story of a predetermined (by the producer) length.

Other learned writer/reporter skills are the importance of leads; marrying the script with the visuals; selection of visuals; creation of visuals; proper use of and how to acquire quality soundbites; the legal aspects of the First Amendment as it relates to broadcast journalism; avoiding libel/slander and criminal trespass; balancing a story so that opposing viewpoints are given the chance to respond; and the use and importance of lead-in's, transitions, side bars, and enterprising.

Technical Crew: Students rotate through these jobs throughout the semester. This reinforces skills, which were introduced to them during the Television Production (BC252) prerequisite, and demonstrates how each job within the news team and technical staff is crucial in and of itself, and to all others, thus emphasizing teamwork.

ENG Photography, Video Editor, Studio Camera Operator, Character Generator Operator, Teleprompter Operator, Lighting Director, Switcher, Studio Engineer, Tape Operator, and Audio Person.

"Main Focus" (optional, but one must be chosen) jobs:

Anchor: One student per newscast helps with the preparation of the cast, and then goes on camera to deliver the news, again on a rotating basis. The anchors learn poise, inflection, style and personality. Growth and improvement throughout the duration of the semester are graded.

Director: As a director, the student manipulates the motions and actions of a fifteen person technical crew by calling for camera angles, movement, shot selection, graphic preparation and insertion, lighting, special effects, audio (live and prerecorded) mixing, and video recording. Necessary directorial traits like poise, grace under pressure, diplomacy and proper wielding of authority are monitored and graded.

Overall, the class forces its participants to experience most phases of modern broadcast news. While performing these tasks, besides the diverse journalistic traits a student acquires, several universal skills are emphasized as well, such as: the stress of and how to perform under deadline pressure (the newscasts go on at a specific time whether or not they are ready); the necessity of teamwork; and how to function in the controlled chaos of a live production. All these universal skills are essential to working in the field so they are also considered in the student's final grade under the class participation parameter.

Middlesex Community College Art 118 - Photography I

TOPICS OUTLINE/MINIMUM REQUIREMENTS

Film - SG and structure of film

Film developing- B & W. Both tray and tank developing, paper developing and print

Work for good printing quality and composition

Use of print filters essential

Various paper types and speeds

Lenses- nomenclature- construction and T stops. Focal lengths 35 mm, 50 mm, 75 mm etc.

Aperture F stops and reason for aperture control.

Cameras: focal plan near and far

Focus: SLR twin lens reflex

Coupled range finder etc.

Know small - medium - large camera formats

Shooting techniques - emphasis on camera angles and fresh approach to each and every shot.

Use of various lenses, choosing correct focal length for each shot.

Basic work on portraiture and work from model with standard lighting conditions.

Know lighting - filters and film types and how to convert

After all is said and done it is really the final photograph print quality composition, mounting and subject matter that is really the true test of any photographer.

Haddam-Killingworth High School COURSE - ELECTRONICS 25

(Prerequisite Electricity 15)

1st week	Intro to class Pre quiz Review meters (Electronics Work Book 3-3 - 35 answer all questions)
2nd week	Intro to oscilloscope Uses Types (worksheet 1-5) Lab (3-7 - 3-8 answer all questions/quiz)
3rd week	Electronic symbols Intro to battery charger P.C. board Layout Components Check sheet Lab
4th week	Start assembling Check P.C. boards for continuity Transformers Test for 12.6 v assemble Diode - read pgs. Test meter 90 over check sheet Check assembled components and DC voltage
5-6week	Students can work on individual projects
7th week	I.C. Chip Intro types used, handout on 555, 556 Handout on process for making chip Project: sound effect gen. stopped tone gen. Set up chip holder Used bread board - quiz
8th week	Capacitor discussion, pg. 109, #2,3,4,5,6 Handout and quiz Identify uses in AC and DC
9th week	Finish generators Check set up show students how to use logic probe quiz capacitors

10th week	Transistors Identify types/uses Testing
11th week	Students can work on individual projects Students can repair shop equipment Students can organize shop supplies and equipment

GENERAL CLEAN UP

Haddam-Killingworth High School Course - TV Production (Basic & Advanced)

Haddam-Killingworth High School
Television Production Curriculum

Television Production students at Haddam-Killingworth produce a live, daily television news show and much of the course is pointed toward that effort. Students learn by doing. Individual initiative and effort determine benefit to each student. Students who intend to work in the communications industry must learn early of the fiercely competitive nature.

Initial lecture topics:
- History of broadcasting
- Radio development
- FRC-FCC
- AM-FM-TV
- What forces account for commercial broadcasting today?
- FCC as political arm/multiple ownership/regulation
- Video opportunities in and out of broadcasting

Production skills: Each student learns and performs each function in a production crew; camera, audio, director, floor director, videotape, character generator, lighting.

Camera: Students learn and identify parts of the camera, lens and rear control unit, CCU, and demonstrate functions, including white balance and centering. Students will perform focus and zoom on studio cameras and hand held ENG cameras; pan, tilt, truck, dolly; composition for balance, emphasis, special effects. Students will be able to explain why the camera should move--zoom, pan, tilt, dolly, truck, and why it should not. Students will demonstrate by their actions their understanding that the cameraperson is one part of a team that is completely interdependent.

Students will demonstrate their awareness that the camera is the eye of the viewer, through angle selection, smoothness and completion. Students will learn to shoot for editing.

Audio: Students will learn and operate the audio patch panel and the audio mixer. They will learn mike selection and placement, the relationship between the spoken word and instrumental music, and the word and vocal music. Students will produce acceptable voice-overs. Students will be able to select proper voice types for particular program

needs and say why. Students will demonstrate the use of fades and cross-fades. Audio operators will demonstrate by action their understanding of the team function of audio in a production team. Students will learn and practice audio editing.

Director: The director is in charge of the production team and must use that authority to produce a smoothly functioning program. The director must know each of the roles on the crew in order to realize the potential. The director must be able to visualize the program, anticipate any difficulties and be prepared to deal with them. During a program, the director must always be several steps ahead, always preparing the next shot while keeping a critical eye on the current shot. The director must talk to cameras, videotape operators and audio operators, as he/she performs video effects.

The director must know and be able to perform all the functions of the SEG (Special Effects Generator), and to explain why a particular effect is more desirable, more appropriate than another, for instance, a dissolve versus cut, a corner wipe versus a fade. The director must be able to utilize all features of the CG in appropriate manner.

At HK, the director encompasses the functions of the producer and the technical director.

Floor Director: The floor director functions as the in-studio hands of the director, cueing on-camera performers, assisting camera operators with camera movements, moving studio props and graphics. Students learn the importance of the floor director, the importance of giving big, easily seen cues, and the importance of being in the right place at the right time.

Videotape Editor: Advanced students learn and perform all the edit functions of the Panasonic VHS editor: assembly edits, insert edits including video only, and combinations of one and two channel audio with video. Students learn the function of black burst and are able to prepare their own tapes for editing. Students learn to cut on action, to avoid the jump cut, to use it when desired, to use repetitive editing for humor, for emphasis, and to edit to a script. Necessarily, students learn to shoot for editing.

Writing for Video: Students learn television script form, are admonished to think visually, and are continually provided with examples.

On-Camera Performers: Through continued experience, students learn when it is essential to look into the camera and when it is essential not to. Students learn the importance of self-confidence and poise and the equal value of the appearance of confidence and poise.

Character Generator: With the addition of a Chyron VP 2 CG, tilting, supers, crawls, message functions and video graphics sin general will assume a new importance in HK TV. Students will learn to operate the keyboard-disc memory Chyron in its physical generation capabilities. Students will also consider stylistic concerns of color, font size and style, borders and edging, legibility and appropriate use within a program. As basic competency, however, students will be able to provide titles on video, utilizing supers, crawls and rolls, from real time and from disc memory, using both down-stream keying and straight super.

Lighting: Students learn the basic instrument, how to provide enough light for an acceptable video image, and some lighting for special effects.

HADDAM-KILLINGWORTH COURSE

PHOTOGRAPHY 15

Introduction:

In this course, students will learn about:

1. Camera techniques
2. Darkroom techniques
3. Aesthetics of photography

This course is divided in two sections:

Section I - Photograms
Section II - Photography

Section I - Photograms

This section is primarily intended as an introduction to photography. Very simple tools and print developing techniques (without the use of a darkroom) will be used. Learning the print developing technique should be very thorough in this section in order that it need not be repeated again during the course.

At the same time the aesthetics of photograms in their own right should be investigated and form a foundation of future exploration and experimentation. Further, photograms should become the point of departure for contact printing.

Section II - Photography

Photography--Painting with Light--As a means of more effective visual communication and visual literacy will be stressed. The basic principles of photography including camera controls, operation and care, as well as various processing and creative darkroom techniques will be presented.

Students will plan, produce, and present their own slide sequences and prints as a basic part of this course.

Course Mastery Objectives:

Upon completion of this course, the student will be able to...

1. make use of aperture settings for creative control of depth of field;
2. make use of shutter speed settings for creative control of apparent subject motion;
3. determine correct exposure for a variety of difficult photographic light conditions;
4. apply appropriate lighting techniques, in both studio and "on location" situations, for proper exposure of film;
5. apply principles of composition in the process of exposing photographic film;
6. produce a black-and-white photographic print utilizing creative darkroom technique.

PROJECTS	MEDIA	VOCABULARY
mixing photo chemicals	slow photographic paper	speed exposure
step exposure of photo paper	Dekol stop bath fixer (rapid)	emulsion silver halides developer
photograms	mount board rubber cement	stop bath fixer
mounting of photograms	timer	
display		
loading the tank	photographic film	change bag
developing the film	developing tank	D-76
drying the film	chemicals graduates timer	Foto-Flo
expose a roll of b/w from which several shots must be mounted and give the teacher for grading	enlarger photographic paper exposure guide print dryer print flattening solution	f-stop operation of field depth of field exposure
final project		
mounting and exhibiting of final projects		

MIDDLESEX COMMUNITY COLLEGE

Advisory Committee

Broadcast Communication Program-

David Amirault
Technical Director
Pastoral Theological Institute
Hamden

Steven Carter
Technical Operator & Engineer
ESPN Cable Network
Meriden

Corrine Fisher
Public Access Coordinator
Storer Communications of Clinton, Inc.
Clinton

Thomas Gallagher, Manager
Rollins Cablevision
Branford

Gemma Joseph
Community Affairs Director
WTIC-TV
Hartford

Linda Moss
Programming Director
Hartford Cable TV
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Larry Rifkin
Director of Public Relations
WEDH-TV
Hartford

Mindy Vazquez-Hernandez
Community Affairs Director
WHCT-TV
Hartford

BUDGET DESCRIPTION

1. Professional/Technical Services

a) Curriculum Development		
Co-Directors - 2 for 40 hrs. @ $20 =	$1600	
Committee - 5 members for 9 hrs. @ $12 =	540	
1 member for 40 hrs. @ $12 =	480	
		$2620.00
b) Typing, word processing, and other clerical activities for the preparation and submission of all paperwork, curriculum, and brochure insert		500.00
Total Professional/Technical Services		$3120.00
2. Other Supplies		200.00
TOTAL GRANT		$3320.00

ANNOUNCING

MxCC's HIGH SCHOOL TO COLLEGE SEQUENCE CURRICULUM
BEGIN YOUR MxCC ASSOCIATE DEGREE
IN HIGH SCHOOL!

Your career in broadcasting can begin while you're in high school. Middlesex Community College, in cooperation with Haddam-Killingworth High School, will award college credits to qualified MxCC students who successfully completed requirements in specified courses taken in high school. The course breakdown is as follows:

Haddam-Killingworth High School Course	Middlesex Community College Course	Credits
Basic TV Production	BC 528 (Broadcast Journal Workshop)	3
Advanced TV Production	BC 252 (TV Production)	3
Electronics	BC 104 (Fundamentals of Electronics)	3
Photography	Art 118 (Photography I)	3
	TOTAL CREDITS	12

The new Middlesex Communications Center is a state-of-the-art broadcast facility where you will be trained to work in all aspects of TV and radio, from producing, directing, and performance to operating advanced technical equipment. Whether you are seeking immediate employment or a solid foundation for a four-year bachelor's degree in communications, the Middlesex Communications Center is the place to begin

WANT MORE INFORMATION?

Speak to your high school television teacher or guidance counselor at Haddam-Killingworth High School right away! Call 345-8541 .

STATE OF CONNECTICUT

BOARD OF GOVERNORS FOR HIGHER EDUCATION

BOARD OF TRUSTEES OF REGIONAL COMMUNITY COLLEGES

MIDDLESEX COMMUNITY COLLEGE

2 + 2 Program
Middlesex Community College & Haddam-Killingworth High School
High School to College Curriculum Sequence in
Broadcast Communications

Dear Student Applicant,

Attached is an application form for the 2 & 2 program in Broadcast Communications between your high school and Middlesex Community College. This program will allow you to earn up to 12 college credits through MxCC while still in high school which you apply towards an Associates degree in Broadcast Communications. You may also be able to transfer these credits to other colleges or universities. However, we must warn you that not all other colleges may necessarily accept them.

In order to receive college credit, you must first fill out the attached application and have the appropriate teacher(s) sign it. The last teacher to sign it should have it forwarded to your records office and then sent to the Broadcast Communications Department at Middlesex. You must be enrolled in the appropriate courses before applying. In addition to the normal course work which you will do, there are certain special requirements for each subject. Also, there are certain eligibility and prerequisite requirements that you must meet. Be sure to obtain a list of requirements for the course(s) you are interested in from your teacher.

At the completion of your course(s), you may need to come to Middlesex to fulfill any special requirements. Your teacher will help you prepare for this. Before coming you must make an appointment by contacting John Shafer, Broadcast Communications Co-coordinator, at the telephone number below.

Once you have completed all requirements for the courses you have applied for, you are eligible to receive credit for them. The last thing you must do is apply and be accepted as a student at Middlesex. Once you've completed one semester at Middlesex these credits will be included on your transcript. If you are planning to attend another college or university in the fall, you may still accomplish this by taking a summer class.

If you have any special questions or problems, ask your teacher or contact John Shafer at the telephone number below. Good Luck!

Phone: 344-7450 32
100 Training Hill Road • Middletown, Connecticut 06457

An Equal Opportunity Employer

APPLICATION FORM

2 + 2
Middlesex Community College & Haddam-Killingworth High School
High School to College Curriculum Sequence
in Broadcast Communications

_____
Date

Name _____
Last First Middle initial

Address _____
Street City/Town State/Zip

Phone _____

Will graduate form high school in? _____

Applying for credit in which courses?

____Photography 15 (Art 118) _____
Photography Teacner Approval

____Electronics 25 (BC 104) _____
Electronics Teacher Approval

____Basic TV 15 (BC 258) _____
TV Teacner Approval

____Advanced TV 25 (BC 252) _____
TV Teacher Approval

Teacher Comments: (For Photography, Electronics and Advanced TV courses, include grades of earlier semesters' work in subject)

_____

TO BE FILLED IN BY HIGH SCHOOL RECORDS OFFICE:

Student cumulative GPA: _____ _____
Staff Signature

_____

MxCC FACULTY USE ONLY:

Course(s) approved for credit:

_____
Faculty Signature Date

PHOTOGRAPHY (ART 118)

Middlesex Community College equivalency for Haddam-Killingworth High School students taking Photography 15.

Eligibility requirement: All students applying for credit must be a junior or senior in good standing with an overall GPA of 2.5 or better.

Requirements:

1. Completion of two semesters of Photography 15 with a "B" or better grade.

2. Completion and submission to Middlesex Community College faculty of a portfolio of individually produced shot and printed photographic works to include:

   -sequence of at least 2 photographs demonstrating differences in depth of field.

   -still life

   -portrait

   -photojournalism story sequence

   -lighting variations - backlighting, 3-point, low key, etc.

   -object in motion (frozen & blurred)

BROADCAST JOURNALISM (BC 258)

Middlesex Community College equivalency for Haddam-Killingworth High School students taking TV 15.

Eligibility requirement: All students must be a junior or senior in good standing with an overall GPA of 2.5 or better.

Requirements:

1. Completion of TV 15 (two semesters) with B or better grade. Student must have satisfactorily participated in all of the following areas at least once during live daily newscasts: camera, audio, floor directing, videotape, character generator, technical director, news-writer, director, anchor.

2. Completion of an ENG (Electronic News Gathering) project used in daily newscast. Creative and technical responsibility should be individual or shared with one or two other students. Tape copy to be submitted to Middlesex Community College faculty for evaluation.

TV PRODUCTION (BC 252)

Middlesex Community College equivalency for Haddam-Killingworth High School students taking TV 25.

Eligibility requirement: All students applying for credit must be a junior or senior in good standing with an overall GPA of 2.5 or better.

Prerequisite: Completion of TV 15 (1st year) with B or better.

Requirements:

1. Completion of TV 25 (2nd year) with B or better.

2. Completion of individual video project which student must write, direct, photograph and edit with primary creative and technical responsibility. Tape copy to submitted to Middlesex Community College faculty for evaluation project produced while taking TV 25.

3. Completion of 8 hours of special instruction on use of facilities at Middlesex Community College. To be arranged with Middlesex Community College Communications Center Director.

ELECTRONICS (BC 104)

Middlesex Community College equivalency for Haddam-Killingworth High School students taking Electronics 15.

Eligibility requirement: Must be a junior or senior in good standing with an overall GPA of 2.5 or better.

Prerequisite: Completion of Electricity 15 with B or better grade.

Requirements:

1. Completion of 2 semesters of Electronics 25 with B or better grade.

2. Pass standardized examination with B or better grade.

In addition to topics covered in the first semester of Electronics 25 (see course outline) the following topics should be covered in the second semester with guidance by instructor in preparation for the standardized examination:

Electron Physics
OHMS Law
Filter Concepts
Maximum Power Transfer
Complex Numbers
Electron

EIA Color Code
Electronics Prefixes
Impedance Matching
Network Theorems
Resonance

ERIC Clearinghouse for Junior Colleges JUL 21 1989